

Soils Report

Corrosion Steel - Dominant Condition

Various metals and other materials corrode when they are on or in the soil. The risk of corrosion for steel is the susceptibility of uncoated steel to corrosion when in contact with the soil. Risk of corrosion on uncoated steel pertains to the potential soil-induced electrochemical or chemical reaction that converts iron into ions, thereby dissolving or weakening uncoated steel.

Soil Survey: Island of Hawaii, Hawaii

Survey Status: Out-of-date

Correlation Date: 01/01/1968

Distribution Date: 11/21/2001

Map Symbol	Soil Name	Rating
AaC	AINAKEA SILTY CLAY LOAM, 3 TO 12 PERCENT SLOPES	High
AaD	AINAKEA SILTY CLAY LOAM, 12 TO 20 PERCENT SLOPES	High
AaE	AINAKEA SILTY CLAY LOAM, 20 TO 35 SLOPES	High
AFD	APAKUIE VERY FINE SANDY LOAM, 12 TO 20 PERCENT SLOPES	High
AkC	AKAKA SILTY CLAY LOAM, 0 TO 10 PERCENT SLOPES	High
AkD	AKAKA SILTY CLAY LOAM, 10 TO 20 PERCENT SLOPES	High
AIC	ALAPAI SILTY CLAY LOAM, 0 TO 10 PERCENT SLOPES	High
AID	ALAPAI SILTY CLAY LOAM, 10 TO 20 PERCENT SLOPES	High
AIE	ALAPAI SILTY CLAY LOAM, 20 TO 35 PERCENT SLOPES	High
ApD	ALAPAI EXTREMELY STONY SILTY CLAY LOAM, 10 TO 20 PERCENT SLOPES	High
ASD	APAKUIE VERY STONY VERY FINE SANDY LOAM, 12 TO 20 PERCENT SLOPES	High
BH	BEACHES	High
FL	FILL LAND	Moderate
HaA	HAWI SILTY CLAY, 0 TO 3 PERCENT SLOPES	Moderate
HaC	HAWI SILTY CLAY, 3 TO 12 PERCENT SLOPES	Moderate
HCD	HANIPOE VERY STONY LOAM, 12 TO 20 PERCENT SLOPES	Moderate
HDD	HANIPOE SILT LOAM, 12 TO 20 PERCENT SLOPES	High
HeC	HAWI EXTREMELY STONY SILTY CLAY, 6 TO 12 PERCENT SLOPES	Moderate
HFD	HANIPOE VERY ROCKY SILT LOAM, 6 TO 20 PERCENT SLOPES	Moderate
HHC	HEAKE VERY ROCKY SANDY LOAM, 6 TO 12 PERCENT SLOPES	Moderate
HKC	HEAKE EXTREMELY ROCKY SANDY LOAM, 0 TO 10 PERCENT SLOPES	Moderate
HIC	HILEA SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES	High
HND	HONAUNAU SILT LOAM, 6 TO 20 PERCENT SLOPES	High
HoC	HILO SILTY CLAY LOAM, 0 TO 10 PERCENT SLOPES	High
HoD	HILO SILTY CLAY LOAM, 10 TO 20 PERCENT SLOPES	High
HoE	HILO SILTY CLAY LOAM, 20 TO 35 PERCENT SLOPES	High
HRD	HONAUNAU EXTREMELY ROCKY SILTY CLAY LOAM, 6 TO 20 PERCENT SLOPES	High
HsC	HONOKAA SILTY CLAY LOAM, LOW ELEVATION, 0 TO 10 PERCENT SLOPES	High
HsD	HONOKAA SILTY CLAY LOAM, LOW ELEVATION, 10 TO 20 PERCENT SLOPES	High
HsE	HONOKAA SILTY CLAY LOAM, LOW ELEVATION, 20 TO 35 PERCENT SLOPES	High
HTD	HONOKAA SILTY CLAY LOAM, 10 TO 20 PERCENT SLOPES	High

Map Symbol	Soil Name	Rating
HTE	HONOKAA SILTY CLAY LOAM, 20 TO 35 PERCENT SLOPES	High
HUD	HONUAULU VERY STONY SILTY CLAY LOAM, 6 TO 20 PERCENT SLOPES	High
HVD	HONUAULU EXTREMELY STONY SILTY CLAY LOAM, 12 TO 20 PERCENT SLOPE	High
KaC	KAIWIKI SILTY CLAY LOAM, 0 TO 10 PERCENT SLOPES	High
KaD	KAIWIKI SILTY CLAY LOAM, 10 TO 20 PERCENT SLOPES	High
KaE	KAIWIKI SILTY CLAY LOAM, 20 TO 35 PERCENT SLOPES	High
KBC	KAALUALU EXTREMELY STONY LOAMY SAND, 2 TO 12 PERCENT SLOPES	Moderate
KCD	KAHUA SILTY CLAY LOAM, 6 TO 20 PERCENT SLOPES	High
KDD	KAINALIU VERY STONY SILTY CLAY LOAM, 12 TO 20 PERCENT SLOPES	Moderate
KEC	KAINALIU EXTREMELY STONY SILTY CLAY LOAM, 12 TO 20 PERCENT SLOPES	Moderate
KfA	KIKONI VERY FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES	Moderate
KGC	KAMAKOA VERY FINE SANDY LOAM, 0 TO 10 PERCENT SLOPES	Moderate
KhA	KOHALA SILTY CLAY, 0 TO 3 PERCENT SLOPES	Moderate
KhC	KOHALA SILTY CLAY, 3 TO 12 PERCENT SLOPES	Moderate
KhD	KOHALA SILTY CLAY, 12 TO 20 PERCENT SLOPES	Moderate
KhE	KOHALA SILTY CLAY, 20 TO 35 PERCENT SLOPES	Moderate
KIC	KAMAOA LOAM, 6 TO 12 PERCENT SLOPES	Moderate
KJC	KAMAOA LOAM, MODERATELY SHALLOW, 6 TO 12 PERCENT SLOPES	Moderate
KKC	KAMAOA EXTREMELY STONY LOAM, 6 TO 12 PERCENT SLOPES	Moderate
KLC	KAPAPALA LOAM, 0 TO 10 PERCENT SLOPES	Moderate
KLD	KAPAPALA LOAM, 10 TO 20 PERCENT SLOPES	Moderate
KMD	KAPAPALA VERY ROCKY LOAM, 6 TO 20 PERCENT SLOPES	Moderate
KNC	KAWAIHAE EXTREMELY STONY VERY FINE SANDY LOAM, 6 TO 12 PERCENT SLOPES	Moderate
KOC	KAWAIHAE VERY ROCKY VERY FINE SANDY LOAM, 6 TO 12 PERCENT SLOPES	Moderate
KPD	KEALAKEKUA SILTY CLAY LOAM, 12 TO 20 PERCENT SLOPES	High
KRD	KEALAKEKUA VERY STONY SILTY CLAY LOAM, 6 TO 20 PERCENT SLOPES	High
KSD	KEALAKEKUA EXTREMELY STONY SILTY CLAY LOAM, 12 TO 20 PERCENT SLOPES	High
KTB	KEEKEE LOAMY SAND, 0 TO 6 PERCENT SLOPES	High
KuC	KUKAIAU SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES	High
KuD	KUKAIAU SILTY CLAY LOAM, 12 TO 20 PERCENT SLOPES	High
KuE	KUKAIAU SILTY CLAY LOAM, 20 TO 35 PERCENT SLOPES	High
KVC	KEHENA SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES	High
KwD	KUKAIAU SILTY CLAY LOAM, MODERATELY SHALLOW, 12 TO 20 PERCENT SLOPES	High
KXC	KIKONI VERY FINE SANDY LOAM, 3 TO 12 PERCENT SLOPES	Moderate
KYC	KIKONI EXTREMELY STONY VERY FINE SANDY LOAM, 6 TO 12% SLOPES	Moderate
KZD	KILOHANA LOAMY FINE SAND, 12 TO 20 PERCENT SLOPES	Moderate
LAD	LAUMAIA SILT LOAM, 6 TO 20 PERCENT SLOPES	Moderate
LUC	LAUMAIA EXTREMELY STONY SILT LOAM, 6 TO 12 PERCENT SLOPES	Moderate
MaA	MAILE SILT LOAM, 0 TO 3 PERCENT SLOPES	High
MHC	MAHUKONA SILTY CLAY LOAM, 3 TO 12 PERCENT SLOPES	Moderate
MKC	MAHUKONA VERY STONY SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES	Moderate
MLD	MAILE SILT LOAM, 6 TO 20 PERCENT SLOPES	High

Map Symbol	Soil Name	Rating
MMD	MANAHAA SILT LOAM, 6 TO 20 PERCENT SLOPES	High
MND	MANAHAA EXTREMELY STONY SILT LOAM, 6 TO 20 PERCENT SLOPES	Moderate
MoC	MOAULA SILTY CLAY LOAM, 0 TO 10 PERCENT SLOPES	High
MoD	MOAULA SILTY CLAY LOAM, 10 TO 20 PERCENT SLOPES	High
MoE	MOAULA SILTY CLAY LOAM, 20 TO 35 PERCENT SLOPES	High
MT	MIXED ALLUVIAL LAND	Moderate
NaC	NAALEHU SILTY CLAY LOAM, 0 TO 10 PERCENT SLOPES	Moderate
NaD	NAALEHU SILTY CLAY LOAM, 10 TO 20 PERCENT SLOPES	Moderate
NaE	NAALEHU SILTY CLAY LOAM, 20 TO 35 PERCENT SLOPES	Moderate
NhD	NAALEHU VERY ROCKY SILTY CLAY LOAM, 6 TO 20 PERCENT SLOPES	Moderate
NIC	NIULII SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES	High
NID	NIULII SILTY CLAY LOAM, 12 TO 20 PERCENT SLOPES	High
NIE	NIULII SILTY CLAY LOAM, 20 TO 35 PERCENT SLOPES	High
OaC	OLAA SILTY CLAY LOAM, 0 TO 10 PERCENT SLOPES	High
OHC	OHIA SILTY CLAY LOAM, 0 TO 10 PERCENT SLOPES	High
OID	OLAA EXTREMELY STONY SILTY CLAY LOAM, 0 TO 20 PERCENT SLOPES	High
OoC	OOKALA SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES	Moderate
OoD	OOKALA SILTY CLAY LOAM, 12 TO 20 PERCENT SLOPES	Moderate
OoE	OOKALA SILTY CLAY LOAM, 20 TO 35 PERCENT SLOPES	Moderate
OSD	OHIA EXTREMELY STONY SILTY CLAY LOAM, 0 TO 20 PERCENT SLOPES	High
PaC	PAAUHAU SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES	Moderate
PaD	PAAUHAU SILTY CLAY LOAM, 12 TO 20 PERCENT SLOPES	Moderate
PaE	PAAUHAU SILTY CLAY LOAM, 20 TO 35 PERCENT SLOPES	Moderate
PeC	PANAEWA VERY ROCKY SILTY CLAY LOAM, 0 TO 10 PERCENT SLOPES	High
PKB	PAKINI VERY FINE SANDY LOAM, 2 TO 6 PERCENT SLOPES	Moderate
PLC	PALAPALAI SILT LOAM, 6 TO 12 PERCENT SLOPES	Moderate
PMC	PALAPALAI SILTY CLAY LOAM, 6 TO 12 PERCENT SLOPES	Moderate
PND	PIIHONUA SILTY CLAY LOAM, 6 TO 20 PERCENT SLOPES	High
POD	PIIHONUA EXTREMELY STONY SILTY CLAY LOAM, 6 TO 20 PERCENT SLOPES	High
PPC	PUAULU SILT LOAM, 0 TO 10 PERCENT SLOPES	High
PRD	PUNOHU SILT LOAM, 12 TO 20 PERCENT SLOPES	Moderate
PSC	PUUKALA EXTREMELY STONY SILT LOAM, 6 TO 12 PERCENT SLOPES	High
PTC	PUUKALA VERY ROCKY SILT LOAM, 6 TO 12 PERCENT SLOPES	High
PUC	PUU OO SILT LOAM, 6 TO 12 PERCENT SLOPES	High
PVD	PUU PA EXTREMELY STONY VERY FINE SANDY LOAM, 6 TO 20 PERCENT SLOPES	Moderate
PVF3	PUU PA EXTREMELY STONY VERY FINE SANDY LOAM, 70 TO 100 PERCENT SLOPES, SEVERELY ERODED	Moderate
PWD	PUU PA SILT LOAM, 12 TO 20 PERCENT SLOPES	Moderate
rAK	AKAKA SOILS	High
rAM	AMALU SOILS	High
rAR	AMALU-ROUGH BROKEN LAND ASSOCIATION	High
RB	ROUGH BROKEN LAND	High
rCL	CINDER LAND	Low

Map Symbol	Soil Name	Rating
rHID	HUIKAU LOAMY SAND, 12 TO 20 PERCENT SLOPES	Moderate
rHID2	HUIKAU LOAMY SAND, 12 TO 20 PERCENT SLOPES, ERODED	Moderate
rHLD	HUIKAU EXTREMELY STONY LOAMY SAND, 12 TO 20 PERCENT SLOPES	Moderate
rHP	HYDRANDEPT-TROPOFOLIST ASSOCIATION	High
rKAD	KAHALUU EXTREMELY ROCKY MUCK, 6 TO 20 PERCENT SLOPES	High
rKED	KAIMU EXTREMELY STONY PEAT, 7 TO 25 PERCENT SLOPES	Moderate
rKFD	KEAUKAHA EXTREMELY ROCKY MUCK, 6 TO 20 PERCENT SLOPES	Moderate
rKGD	KEEI EXTREMELY ROCKY MUCK, 6 TO 20 PERCENT SLOPES	Moderate
rKHD	KEKAKE EXTREMELY ROCKY MUCK, 6 TO 20 PERCENT SLOPES	Moderate
rKUC	KILAUEA EXTREMELY GRAVELLY SAND, 6 TO 12 PERCENT SLOPES	Moderate
rKXD	KILOA EXTREMELY STONY MUCK, 6 TO 20 PERCENT SLOPES	Moderate
rKYD	KONA EXTREMELY ROCKY MUCK, 6 TO 20 PERCENT SLOPES	Moderate
rLLD	LALAAU EXTREMELY STONY MUCK, 6 TO 20 PERCENT SLOPES	High
rMAD	MALAMA EXTREMELY STONY MUCK, 3 TO 15 PERCENT SLOPES	Moderate
rMUB	MANU SILT LOAM, 2 TO 6 PERCENT SLOPES	Moderate
rMWD	MAWAE EXTREMELY STONY MUCK, 6 TO 20 PERCENT SLOPES	Moderate
rOPE	OPIHIKAO EXTREMELY ROCKY MUCK, 3 TO 25 PERCENT SLOPES	Moderate
rPAE	PAPAI EXTREMELY STONY MUCK, 3 TO 25 PERCENT SLOPES	Low
rPHB	PUHIMAU SILT LOAM, 2 TO 6 PERCENT SLOPES	Moderate
rPXE	PUNA EXTREMELY STONY MUCK, 3 TO 25 PERCENT SLOPES	Low
rPYD	PUNALUU EXTREMELY ROCKY PEAT, 6 TO 20 PERCENT SLOPES	Low
rRO	ROCK LAND	Moderate
rVS	VERY STONY LAND	Moderate
Tr	TROPAQUEPTS	High
UMD	UMIKOA SILT LOAM, 12 TO 20 PERCENT SLOPES	High
USD	UMIKOA EXTREMELY STONY SILT LOAM, 12 TO 20 PERCENT SLOPES	Moderate
WAC	WAIHAHA SILT LOAM, 0 TO 10 PERCENT SLOPES	High
WAD	WAIHAHA SILT LOAM, 10 TO 20 PERCENT SLOPES	High
WHC	WAIHAHA EXTREMELY STONY SILT LOAM, 6 TO 12 PERCENT SLOPES	Moderate
WKD	WAIHAHA VERY ROCKY SILT LOAM, 10 TO 20 PERCENT SLOPES	High
WLC	WAIKALOA VERY FINE SANDY LOAM, 6 TO 12 PERCENT SLOPES	Moderate
WMC	WAIMEA VERY FINE SANDY LOAM, 6 TO 12 PERCENT SLOPES	High
WSD	WAIMEA EXTREMELY STONY VERY FINE SANDY LOAM, 12 TO 20 PERCENT SLOPES	High